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Campaign Kick-Off:

MARC Session Set to Launch National Drive

WASHINGTON

An examination of the importance of coal in solving the energy crisis — and how to get this message before Congress and the federal government — will be the focus of the Mining and Reclamation Council of America's Third Annual Meeting at the Hyatt-Regency Hotel in Washington, D.C., from March 30th through April 1st.

MARC's meeting revolves around the election theme of "Coal Now — the Platform of the 80s," and is timed to attract the attention of those candidates running for office.

Ben E. Lusk, MARC's President, says, "Coal in the 80s could potentially be this country's major energy source. As we enter this new decade, we must rededicate ourselves as a total industry to promoting coal as this country's major fuel. Our conference will be the beginning of a year-long campaign to educate our elected officials to the importance of coal."

Government and industry figures will meet with MARC's members and other conference participants to discuss the main issues affecting coal. Sessions will cover the federal surface mining act, President Carter's energy policy, the Federal Coal Management Program, utility coal conversion, industrial and export markets, and how to promote coal.

The conference format will provide an excellent opportunity for all of those involved in the coal industry to meet with those Washington decision-makers who influence coal policy.

Mining Engineers' Median Monthly Salary is $2,385

COLUMBUS, OHIO

The 1979 monthly median salary for engineers and scientists engaged in research and development in the U.S. was $2,385, a study by Battelle's Columbus Laboratories shows.

The study, conducted for the U.S. Department of Energy, reports that the monthly median salary for researchers and supervisors with a bachelor's degree was $1,201; master's degree, $2,462; and doctor's degee, $2,688. These figures are based on salaries of degreed nonsupervisory and supervisory researchers at 322 establishments.

Battelle, which has conducted the study since 1968, sampled 91,315 scien-

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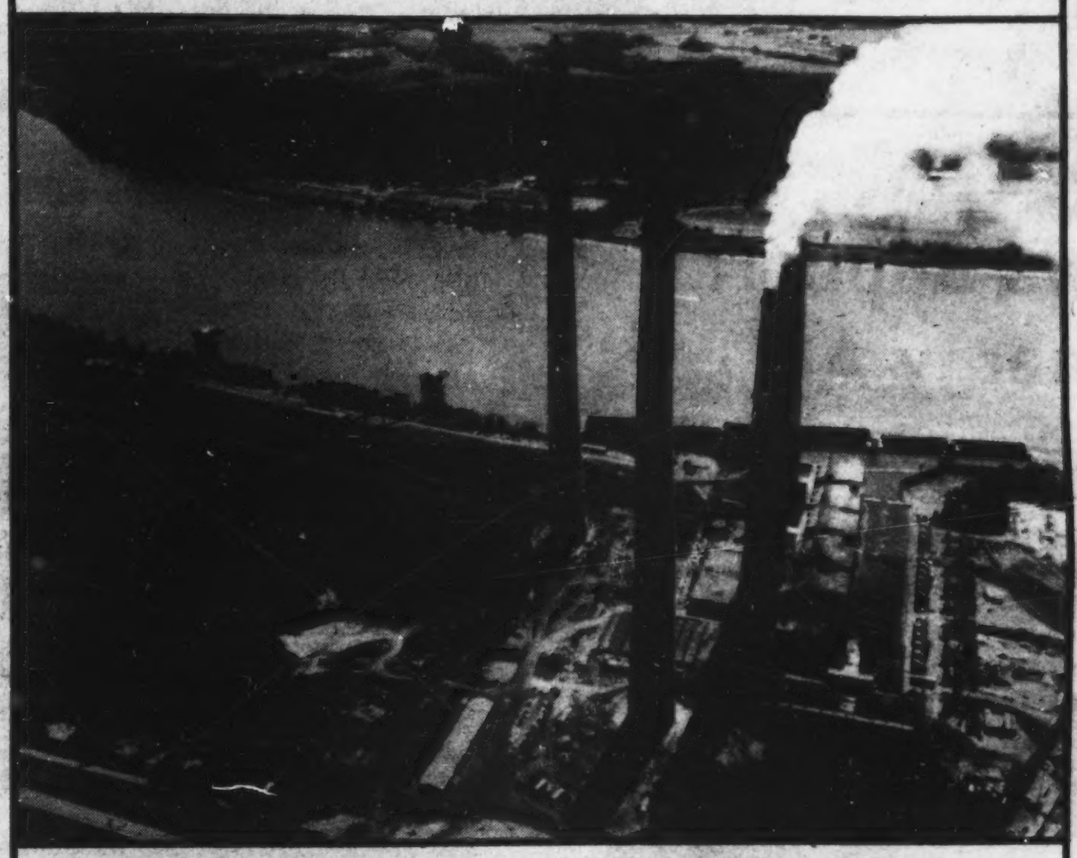
CINews Profiles Research-Cottrell

RESEARCH-COTTRELL'S CORPORATE HEADQUARTERS at Bedminister, New Jersey. (See four-page centerfold section.)



WORKERS FROM CUSTODIS CONSTRUCTION (A Research-Cottrell Environmental Company) top out two chimneys nearly 1000 feet tall at a coal-burning power plant along the Ohio River.

LOBBY AND RECEPTION AREA of the Air Pollution Control Division of Research-Cottrell's office in Branchburg, New Jersey.

INSIDE THIS ISSUE. . .

NEW POLL SHOWS STRONG SUPPORT for more government-backed financial incentives to make homes more energy efficient. (Page 2)

GEORGETOWN UNIVERSITY PILOT PROGRAM shows promise for high-sulfur coal use in fluidized bed boiler. (Page 24)

EPA ADMINISTRATOR COSTLE IS SATISFIED that the Administration's coal conversion program will not harm air quality standards. (Page 5)

WESTINGHOUSE PROVES LARGE TURBINES can run on liquids from coal or shale. (Page 6)

Far-Ranging Report:

Fact-Finders Propose Vast Mine Changes

By MIKE MYER

WASHINGTON

Recommendations on a broad spectrum of matters relating to increased coal production and use, from safer mining to air pollution, are covered in the final report of the President Carter's Commission on Coal.

Sweeping changes in government policy and spending of billions of dollars to speed increased coal production and use are recommended by the commission. The body is headed by Gov. John D. Rockefeller IV of West Virginia.

Covered in the report were miners' safety and living conditions, labor relations, coal production capacity, power plant conversion to coal, federal funding help for such conversion, utility rates, rail freight rates, synthetic fuels, air pollution and surface mining regulations.

Labor relations and environmental protection are cited by the commission as "two areas of special concern."

Citing its belief that large-scale increases in coal burning by power plants will result in little, if any increased air pollution, the commission states:

"With respect to increased coal use and protection of the environment, the differences that now exist must give way to accommodation."

Concerning labor-management relations, "the distrust within and between the two sides must be put behind them," the commission states.

In order to help work out some of the major problems facing the coal in-

(Continued on Page 16)

Turbines Ready For Coal-Power Pilot Plant Use

NEW ORLEANS

Large combustion turbines now are ready to run on liquids made from coal or shale and the way has been cleared for a demonstration of the technique at a commercial electric power plant.

Joseph R. Stadelman, general manager of Westinghouse Electric Corporation's combustion turbine systems division, said plans now are being discussed for the next step.

In reporting results of tests to the American Society of Mechanical Engineers, Stadelman said:

"We are now discussing plans for the next step, which would be a joint

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DOMESTIC

PRODUCTION	Latest	Previous	Yr.Ago
Mar. 1 '80	Mar.1	Feb.23	Mar.3'79
Bituminous	15,615	15,675	13,375
Anthracite	92	85	76
RRcarloadings, Bitum	106,522	106,925	86,206
RRcarloadings, Anthra	325	298	273

Source: U.S. Dept. of Energy, Coal Statistics Div.

By States (Bituminous and Lignite)

Eastern Mar. 1'80			
Alabama	501	555	365
Georgia	10	11	9
Illinois	1,293	1,238	985
Indiana	473	477	416
Kentucky			
Eastern	2,028	1,972	1,828
Western	874	884	757
Total Ky.	2,912	2,856	2,585
Maryland	50	51	50
Ohio	781	784	773
Pennsylvania	2,090	2,105	1,435
Tennessee	281	290	225
Virginia	874	883	839
West Virginia	2,175	2,163	1,738
Total Eastern	11,440	10,513	9,420
Western			
Alaska	14	16	15
Arizona	234	239	220
Arkansas	14	14	10
Colorado	358	288	327
Iowa	12	14	7
Kansas	11	16	10
Missouri	118	127	92
Montana	780	790	603
New Mexico	265	266	230
North Dakota	295	270	192
Oklahoma	104	108	83
Texas	314	324	365
Utah	149	155	248
Washington	93	94	90
Wyoming	1,422	1,521	1,463
Total Western	3,683	4,242	3,955
Total United States	15,123	14,755	13,375

Source: Dept. of Energy, Energy Information Admin.: Weekly Coal Report

Work force Jan.'80	Latest	Previous	Yr.Ago
All employees	258.1	259.4	254.8
Coal mining		256.4	251.8
Bit. & lignite			
Production employees			
Coal mining	214.7	216.2	214.4
Bit. & lignite		213.5	211.6
Workers in (000), preliminary			
Weekly Ave—Hrs.			
Coal mining	40.2	41.7	41.3
Bituminous & lignite		41.7	41.3
Earnings, hourly avg in $			
Coal mining	10.40	10.31	9.83
Bituminous & lignite		10.33	9.86
Earnings, weekly avg			
Coal mining	418.08	429.93	405.98
Bituminous & lignite		430.76	407.22

Source: Dept. of Labor, Bureau of Labor Statistics - Employment and Earnings

TRANSPORTATION: RAILROAD

	Week ended Jan. 26		
Eastern district	Jan.26'80	Jan.5'79	Jan.27'79
Bessemer and Lake Erie	1,177	739	1,228
Baltimore and Ohio	4,034	3,198	2,983
Chesapeake and Ohio	10,950	9,526	8,108
Consolidated Rail Corp.	8,910	6,994	6,015
Illinois Terminal	—	—	—
Norfolk and Western	16,216	14,441	13,030
Pittsburgh & Lake Erie	390	265	369
Western Maryland	1,741	1,252	867
Other, eastern district	27	2	1
Total, eastern district	43,445	36,417	32,621
Southern district			
Clinchfield Railroad	1,606	1,426	1,247
Illinois Central Gulf	3,382	3,029	3,057
Louisville & Nashville	12,102	10,144	11,404
Southern Railway	6,873	5,046	5,081
Other, southern district	3	—	20
Total, southern dist.	23,966	19,645	20,809
Western district			
Atchison, Topeka & Santa Fe	1,372	802	1,000
Burlington Northern	20,457	19,641	11,167
Chicago & North Western	641	442	538
Denver & Rio Grande Wstrn	3,079	2,934	2,975
Kansas City Southern	105	82	91
Chicago, Milwaukee, St. Paul & Pac.	1,278	1,060	1,283
Missouri-Kansas-Texas	89	29	199
Missouri Pacific	3,852	2,872	1,571
Chicago, Rock Is. & Pacific	158	112	90
St. Louis-San Francisco	892	678	647
Soo Line	148	118	164
Union Pacific	4,303	2,973	2,557
Other, western district	11	2	107
Total Western district	36,385	31,745	22,389
Total, all districts	87,807	73,789	69,751

Railroad revenue freight loaded,
Source: Assoc. of Amer. Railroads, Car Service Division - Statement CS-54A.

Inland Rivers	Mar.15	Mar.8	Mar.17'79
Monongahela River, Lock 3	377,854	299,198	467,338
Allegheny River, Lock 2	34,900	45,000	38,000
Ohio River, Mntgmry Lock	269,800	176,900	282,110

In short tons through locks, week ended Mar. 15, 1980
Source: U.S. Army Corps of Engineers

CONSUMPTION	Sept.79	Aug.79	Sept.78
Electric power Utilities	41,908	48,453	42,560
Bunker, foreign & lake vessel	1	1	1
Manufacturing & mining industries:			
Beehive coke plants	(a)	(a)	39
Oven coke plants	6,198	6,148	6,352
Steel & rolling mills	287	216	284
Other mfg. and mining industries including cement	4,439	4,481	4,164
Total, industrial	52,813	59,299	53,400
Retail deliveries	460	329	525
Total, all consumption	53,273	59,628	53,925
In short tons (000),	(a) Included in oven coke plants.		
User Stocks			
Electric power utilities	136,658	131,904	112,935
Manufacturing & mining industries:			
Oven coke plants	8,875	8,583	6,202
Steel & rolling mills	452	413	283
Other mfg. and mining industries including cement	7,145	6,741	5,922
Total, industrial	153,130	147,641	125,342
Retail dealer stocks	432	412	362
Total, all stocks of coal	153,562	148,053	125,704
In short tons (000),			
Days' Supplies			
Electric power utilities	98	84	80
Manufacturing & mining industries:			
Oven coke plants	43	43	29
Steel and rolling mills	51	59	30
Other mfg. and mining industries including cement	48	47	43
Total, industrial	87	77	70
Retail dealer stocks	28	39	21
Total, all coal users	86	77	70
In days,			

Source: U.S. Dept. of Energy, Energy Information Admin.: Weekly Coal Report

USERS' OUTPUT

Major direct users:	Latest	Previous	Yr.Ago
Elec.Util.(Mil.Kw)Mar.1	44,588	44,076	43,475
Steel (short tons-000) Mar. 1	2,491	2,432	2,440
Other significant output:			
Aluminum, order receipts (Mil. lbs.)			
5-week moving aver. (week Dec. 28)	282	275	285
Annual rate Dec. 28	14,664	14,300	14,820
Motor vehicle production, Total (week Mar. 1)	197,887	208,880	172,928
Machine tools Nov. 79			
Net new orders	435,750	585,050	441,050
Shipments	348,550	380,050	274,000

Cement—month ended Aug. 79; Machine Tools—month ended Sept. 79.
Sources: Edison Electric Institute, American Iron & Steel Institute, U.S. Dept of Interior, Bureau of Mines, Div. Nonmetallic Minerals, Aluminum Association, Motor Vehicle Manufacturers Assoc., National Machine Tool Builders Assoc.

Price Indexes Dec'79	Latest	Previous	Yr.Ago
Anthracite	457.8	455.4	442.7
Chestnut, Pa. mine	423.7	418.6	408.2
Buckwheat No. 1, Pa. mine	381.1	372.6	364.6
Bituminous coal	480.4	479.6	466.2
Domestic sizes	457.9	455.6	442.8
Retail dealers	577.6	581.4	573.1
Industrial sizes, spot	273.3	275.0	271.1
Steam electric util.	394.5	394.4	401.6
Manufacturing	119.4	118.7	122.9
Metallurgical, high volatile	249.4	250.2	253.7
Metallurgical, low & medium volatile	706.2	706.2	715.9
Industrial sizes, contract	703.6	706.6	709.9
Steam Electric Utility	129.5	128.6	123.3
Manufacturing	150.6	148.9	138.2
Metallurgical, high volatile	116.8	116.8	115.1
Coke (Foundry by-product)	104.4	104.4	105.2
Birmingham, Ala.	431.2	431.2	418.8
Milwaukee, Wis.	439.6	439.6	419.0
Detroit, Mich.	420.4	420.4	405.9
Indianapolis, Ind.	427.4	427.4	415.8
St. Louis, Missouri	437.7	437.7	424.2
Philadelphia, Penna.	286.8	286.8	277.8
	285.8	285.8	276.8

Prices for month of Aug. '79 for Anthracite & Bituminous Coal.
Index Bases: For Retail Dealers—Dec. '75=100; For Industrial Sizes—Spot; All Metallurgical & Coke (foundry by-product)—1967=100; Steam Elec. Util.—Dec. '73=100.
Source: U.S. Dept. of Labor: Producer Prices and Price Indexes.

Abbreviations

DOE — Dept. of Energy
EIA — Energy Information Admin.
AAR — Assn. of American Railroads
EEI — Edison Electric Institute
MVMA — Motor Vehicle Mfrs. Assn.
COE — Corps of Engineers
Bit. — Bituminous
Lig. — Lignite
Ant. — Anthracite

U.S. ELECTRIC UTILITY PLANTS
Fuel Prices in Cents per Million British Thermal Units
Steam-Electric Plants, Monthly Purchases - Average

	Fuel	Latest	Previous	Yr.Ago.	Change 6/78 to 6/79
U.S. TOTAL JUNE 1979	Coal	121.8	123.4	112.0	+ 8.8%
	Oil	300.0	277.7	212.7	+41.0%
	Gas	179.3	177.2	149.3	+20.1%
NEW ENGLAND	Coal	155.2	152.7	155.3	— 0.1%
	Oil	293.6	272.7	192.5	+52.5%
	Gas	263.1	250.1	185.8	+41.6%
MIDDLE ATLANTIC	Coal	122.8	120.4	125.0	— 1.8%
	Oil	306.1	279.9	207.1	+47.8%
	Gas	204.7	192.5	171.5	+19.4%
EAST NORTH CENTRAL	Coal	130.6	131.4	117.6	+11.1%
	Oil	342.3	320.0	264.0	+29.7%
	Gas	232.5	247.1	200.1	+16.2%
WEST NORTH CENTRAL	Coal	106.9	100.6	91.6	+16.7%
	Oil	317.7	384.5	206.3	+54.0%
	Gas	146.1	147.1	118.8	+23.0%
SOUTH ATLANTIC	Coal	138.0	139.0	129.2	+ 6.8%
	Oil	312.8	270.7	199.1	+57.1%
	Gas	126.5	123.5	105.2	+20.2%
EAST SOUTH CENTRAL	Coal	131.8	132.7	118.3	+11.4%
	Oil	238.1	231.8	195.0	+22.1%
	Gas	185.9	195.0	150.9	+23.2%
WEST SOUTH CENTRAL	Coal	99.8	89.9	68.6	+45.5%
	Oil	249.8	242.8	196.7	+27.0%
	Gas	168.5	169.2	140.1	+20.3%
MOUNTAIN	Coal	69.3	97.8	50.3	+37.8%
	Oil	309.6	284.3	213.6	+44.9%
	Gas	199.3	193.0	153.7	+29.0
PACIFIC	Coal	84.6	83.0	78.8	+ 7.4%
	Oil	283.4	277.8	261.0	+ 8.9%
	Gas	238.7	225.8	213.4	+11.9%

Source: U.S. Dept. of Energy, Energy Information Administration, Asst. Administrator for Energy Data — Cost and Quality of Fuels for Electric Utility Plants